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in association with the CAB International Institute of Parasitology

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Animal Health
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Nutrition
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Plant Breeding & Genetics
Soils
Forestry

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Further material is acquired and processed by collaborating or contracted organizations. Other staff coordinate work on specialized directories and the Commission new books and primary journals. The Publications Unit is responsible for producing journals and books, and the Marketing & Sales Division promotes and sells Information Services publications.

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CABI's Scientific Services consist of four institutes to support services:

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CAB International Mycological Institute (CIMI), Director Dr L. Hawksworth, located at Ferry Lane, Kew, London, adjacent to the Royal Botanic Gardens.

CAB International Institute of Parasitology (CIP), Director Dr R. Muller, located at Winches Farm, St. Albans, the field station of the London School of Hygiene & Tropical Medicine.

These three Institutes provide an authoritative identification service for agricultural pests and other organisms, conduct research, implement projects, and provide training in their fields of expertise.

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The Institute also provides a wide range of services, including the development of biological control agents, and the provision of advice and assistance with agricultural pests and diseases. The Institute also provides information services.

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Prepared by

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CAB International Institute of Biological Control (CIBC), Director Dr D.J. Greathead, has its headquarters at Silwood Park, Ascot, the field station of Imperial College of Science and Technology, University of London. It has stations in Trinidad and Tobago, Switzerland, Pakistan, Kenya and Malaysia. It provides biocontrol services, conducts training, and participates in integrated pest management programmes.

Development Services (CDS), Head Mr D. Heydon, integrate the broad range of CABI expertise to provide advice and assistance with agricultural problems, but particularly those related to pest management and information services.

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C·A·B INTERNATIONAL INFORMATION SERVICES PRODUCTS AND SERVICES

Almost 100 scientists/linguists in the 11 Bureaux of CABI's Information Services at Wallingford, UK, with help from associated organizations and individuals worldwide, abstract and index the significant research and development literature in agriculture, forestry and allied disciplines. Over 10000 serials and many other publications are scanned, and approximately 130000 bibliographic records are compiled each year. From this computerized database is derived a wide range of information services and products in hard copy and machine-readable form, designed to meet a variety of customer needs.

HARD COPY PRODUCTS

Abstract journals

The following abstract journals on specific disciplines, specialist crops or products, or particular livestock are published, mostly monthly or quarterly. Each has author and subject indexes, cumulated annually in a special issue of the journal.

Animal Science and Production

Animal Breeding Abstracts; Dairy Science Abstracts; Nutrition Abstracts & Reviews, Series B—Livestock Feeds & Feeding; Pig News & Information; Poultry Abstracts.

Veterinary Science and Parasitic Diseases

Animal Disease Occurrence; Helminthological Abstracts, Series A—Animal & Human Helminthology; Index Veterinarius; Protozoological Abstracts; Review of Applied Entomology, Series B—Medical & Veterinary; Review of Medical & Veterinary Mycology; Small Animal Abstracts; Veterinary Bulletin.

Crop Science and Production

Cotton & Tropical Fibres Abstracts; Crop Physiology Abstracts; Faba Bean Abstracts; Field Crop Abstracts; Herbage Abstracts; Horticultural Abstracts; Irrigation & Drainage Abstracts; Lentil Abstracts; Maize Abstracts; Ornamental Horticulture; Plant Breeding Abstracts; Plant Growth Regulator Abstracts; Potato Abstracts; Rice Abstracts; Seed Abstracts; Soils & Fertilizers; Sorghum & Millets Abstracts; Soyabean Abstracts; Tropical Oil Seeds Abstracts; Wheat, Barley & Triticale Abstracts.

Forestry

Agroforestry Abstracts; Forest Products Abstracts; Forestry Abstracts.

Crop Protection

Biocontrol News & Information; Helminthological Abstracts, Series B—Plant Nematology; Review of Applied Entomology, Series A—Agricultural; Review of Plant Pathology; Weed Abstracts.

Economics, Development and Sociology

Leisure, Recreation & Tourism Abstracts; Rural Development Abstracts; Rural Extension, Education & Training Abstracts; World Agricultural Economics & Rural Sociology Abstracts.

Machinery and Buildings

Agricultural Engineering Abstracts.

Human Nutrition

Nutrition Abstracts & Review, Series A—Human & Experimental.

Biotechnology/Biodeterioration

AgBiotech News & Information; Biodeterioration Abstracts.

Also published is a new series of current awareness publications (CAB Prompts) on specific crops. Subject indexes are not provided. Titles in the series so far are: *Groundnuts* and *Chickpeas/Pigeonpeas*.

Many retrospective compilations of abstracts (Annotated Bibliographies) on various topics are available on demand.

SDI Service

SDI (Selective Dissemination of Information) is a regular current awareness service based on the most recent input to the database. Subscribers decide their own search profile and receive search results at intervals of their own choice, either as computer printout or on floppy discs suitable for most microcomputers. Airmail ensures fast delivery.

CAB Alerts

This is a special SDI service providing subscribers each month with the search results from standard profiles chosen by CABI. Numerous titles are available and the list is regularly updated to reflect new subject interests. Output is available on computer printout posted by airmail.

MACHINE-READABLE PRODUCTS AND SERVICES

Online Access

The machine-readable database, known as CAB ABSTRACTS, is publicly accessible online through DIALOG Information Services (USA), BRS Information Technologies (USA), ESA-IRS (Italy), DIMDI (GFR), JICST (Japan), CAN-OLE (Canada) and Tsukuba Daigaku (Japan). The whole database back to 1973 contains over 2 million records. Search aids include the CAB ABSTRACTS Online Manual, the CAB Thesaurus (1988 Edition) and the CAB International Serials Checklist (1988).

Magnetic tapes

Organizations with access to mini or mainframe computers may lease all or part of CAB ABSTRACTS on magnetic tape. Update tapes are issued monthly, and retrospective tapes as required.

OTHER PRODUCTS AND SERVICES

Document Delivery Service

Photocopies of originals of most articles included in the database are available from CABI Library Services, Silwood Park, Ascot, UK. Documents may also be ordered online via DIALOG's DIALORDER or ESA/IRS's PRIMORDIAL.

Books and serial publications

CABI publishes authoritative reference books, directories and serial publications, the latter including *Bulletin of Entomological Research*, *Index of Current Research on Pigs*, *Distribution Maps of Pests*, *Distribution Maps of Plant Diseases*, *Bibliography of Systematic Mycology*, *Descriptions of Pathogenic Fungi & Bacteria*, *Index of Fungi*, and *Systema Ascomycetum*. CABI is a co-sponsor of the International Food Information Service which publishes *Food Science & Technology Abstracts*.

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SCIENTIFIC SERVICES

Identification services

C·A·B International Institute of Parasitology (CIP) provides an identification service for helminth parasites of animals and man, and plant parasitic and entomophilic nematodes.

Division of Helminth Taxonomy:

L.F. Khalil PhD, FIBiol.

L.M. Gibbons PhD

A. Jones PhD

Division of Plant Nematode Taxonomy:

M.R. Siddiqi PhD DSc FLS FIBiol

D.J. Hunt PhD FRES

J. Nobbs PhD

Onchocerciasis Research Unit

The Onchocerciasis Research Unit funded by the World Health Organisation (WHO) works on the *in vitro* culture and drug responses of the filarial parasite *Onchocerca* as part of a major programme to develop new drugs for the safe and effective treatment of human onchocerciasis.

S. Townsend PhD

C. Connelly BSc

A.R. Dobinson HNC

Tropical Plant Nematology Advisory and Research Unit

The unit gives practical advice on plant-parasitic nematode problems and their control, and undertake research contracts both overseas and at the Institute.

J. Bridge PhD

S.L.J. Page PhD

R.A. Plowright PhD

Collections

CIP houses extensive reference collections of both animal helminths and plant-parasitic nematodes, the collections of several eminent helminthologists, and is the WHO Collaborating Centre for the Filarioidea. It is also a recognised repository for type specimens.

Books

Latest titles: Siddiqi, M.R. 1986 Tylenchida; Parasites and Insects 645pp. 166 illus. ISBN 0 85198 554 8

Gibbons, L.M. 1986 SEM Guide to Morphology of Nematode Parasites of Vertebrates 200 pp. 443 illus.

ISBN 0 85198 569 6

Jepson S.B. 1987 Identification of Root-Knot Nematodes (*Meloidogyne* species) x + 265pp. inc. illus. & figs.

ISBN 0 85198 556 4

Muller, R. & Horsburgh, R.C.R. 1987 Bibliography of Onchocerciasis (1841-1985) 468pp.

ISBN 0 85198 604 8

Training Courses

Six-week intensive international training courses on animal helminth parasites and plant-parasitic nematodes are held in alternate years.

NEXT COURSE: Identification of plant nematodes of economic importance 3rd July - 11th August 1989.

LIBRARY SERVICES

Computerized Information Retrieval

Searches undertaken on relevant databases.

Document delivery

Photocopies of publications abstracted by CABI supplied.

Annotated Bibliographies

Current list available and new compilations undertaken on request.

For further information contact B. Pedersen BA.

READERS GUIDE

The purposes of the citations and abstracts are to enable readers to: identify documents containing information of relevance and importance to their interests; keep themselves informed of the progress of current work; decide whether or not they need to see original documents. Abstracts may also act as substitutes for documents not available to readers or in language they cannot understand. Photocopies of most items abstracted are available through C.A.B International's Document Delivery Service. (see request form in this journal). The titles and abstracts in this journal have been added to the CAB ABSTRACTS database which is available for current and retrospective online searches.

In a typical entry the name(s) of the author(s) is followed by the title of the paper in English. If the original paper is not written in English then a translation of the title is enclosed in square brackets and the title of the original language follows (except for Arabic, Chinese, Japanese, etc). Cyrillic characters are transliterated for book titles but not for titles of papers. The unabbreviated journal title is given next (transliterated or romanised if necessary). The year of issue in round brackets, volume number, part number in round brackets, and first and last page numbers of the article complete the basic citation.

Supplementary information, given in square brackets, includes the language of the paper (see abbreviations) and language(s) of additional summary(ies) and the number of references cited in the paper.

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Authors summaries are used for the abstracts if suitable. Special efforts are made to provide informative abstracts of papers in less commonly used languages and in publications which cannot easily be obtained. In consulting an entry the reader should remember that the title of the paper is an integral part of the abstract and may include information necessary for its full comprehension. Names or phrases in square brackets within a title or abstract have been added during abstracting and do not appear in the original document.

ABBREVIATIONS FOR LANGUAGES

An initial capital letter denotes the language of the paper, an initial small letter the language of a summary.

Afrikaans	Af	Finnish	Fi	Malay, Bahasa Malaysia	My
Albanian	Al	French	Fr	Dutch, Flemish	Nl
Arabic	Ar	Greek	Gr	Norwegian	No
Azerbaijani	Az	Hebrew	He	Persian	Pe
Byelorussian	Be	Hungarian	Hu	Polish	Pl
Bulgarian	Bg	Interlingua	Ia	Portuguese	Pt
Chinese	Ch	Indonesian	In	Romanian	Ro
Czech	Cs	Icelandic	Is	Russian	Ru
Danish	Da	Italian	It	Serbo Croat	Sh
German	De	Japanese	Ja	Slovak	Sk
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English	En	Latin	La	Swedish	Sv
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Listed below are the titles of the serial publications (excluding most annual reports and conference proceedings) abstracted during 1988 for this journal. All the titles are given in full, except abbreviated titles taken from secondary publications such as *Referativnyi Zhurnal*.

Many other serials were scanned during 1988 but no relevant articles were selected. A full list of all the serials scanned for items suitable for abstracting for the CAB ABSTRACTS database and the whole range of CABI's abstract journals is given in the *CAB International Serials Checklist, 1988 edition*. The publication includes ISSN's and publishers' addresses. See a separate page of this Index for details.

- ACIAR Proceedings Series, Australian Centre for International
Agricultural Research
Acta Ichthyologica et Piscatoria
Acta Leidensia
Acta Medica Veterinaria
Acta Neuropathologica
Acta Paediatrica Scandinavica
Acta Parasitologica Polonica
Acta Pathologica, Microbiologica et Immunologica Scandinavica
Acta Pharmacologica Sinica
Acta Physiologica et Pharmacologica Latinoamericana
Acta Protozoologica
Acta Tropica
Acta Veterinaria Brno
Acta Veterinaria et Zootechnica Sinica
Acta Veterinaria Hungarica
Acta Veterinaria Scandinavica
Acta Zoologica Bulgarica
Acta Zoologica Sinica
Acta Zootaxonomica Sinica
Actes de l'Institut Agronomique et Vétérinaire Hassan II
Advances in Veterinary Science and Comparative Medicine
Age
Agricultural and Biological Chemistry
AIDS Research
Allergologia et Immunopathologia
American Family Physician
American Industrial Hygiene Association Journal
American Journal of Clinical Pathology
American Journal of Diseases of Children
American Journal of Epidemiology
American Journal of Gastroenterology
American Journal of Hematology
American Journal of Medicine
American Journal of Nephrology
American Journal of Ophthalmology
American Journal of Pathology
American Journal of Public Health
American Journal of Surgical Pathology
American Journal of Tropical Medicine and Hygiene
American Journal of Veterinary Research
American Naturalist
American Review of Respiratory Disease
Anais da Sociedade Entomológica do Brasil
Anales de la Facultad de Veterinaria de León
Analyst
Angewandte Parasitologie
Animal Research and Development
Animal Technology
Annales Agriculturae Fenniae
Annales de Biologie Clinique
Annales de Dermatologie et de Vénérologie
Annales de l'Institut Pasteur
Annales de Médecine Interne
Annales de Médecine Vétérinaire
Annales de Parasitologie Humaine et Comparée
Annales de Pédiatrie
Annales de Recherches Vétérinaires
Annali dell'Istituto Superiore di Sanità, Italy
Annali della Facoltà di Medicina Veterinaria di Pisa
Annals of Internal Medicine
Annals of Saudi Medicine
Annals of the Entomological Society of America
Annals of Tropical Medicine and Parasitology
Annals of Tropical Paediatrics
Annual Review of Immunology
Annual Review of Medicine
Annual Review of Microbiology
Antimicrobial Agents and Chemotherapy
Antimicrobial Agents Annual
Applied and Environmental Microbiology
Applied Entomology and Zoology
Aquaculture
Archiv der Pharmazie
Archiv für Experimentelle Veterinärmedizin
Archiv für Geflügelkunde
Archiv für Lebensmittelhygiene
Archiv für Protistenkunde
Archives de l'Institut Pasteur d'Algérie
Archives de l'Institut Pasteur de Madagascar
Archives de l'Institut Pasteur de Tunis
Archives of Animal Nutrition
Archives of Biochemistry and Biophysics
Archives of Dermatology
Archives of Internal Medicine
Archives of Microbiology
Archives of Ophthalmology
Archives of Pathology and Laboratory Medicine
Archives of Surgery
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Arkiv Patologii
Arquivo Brasileiro de Medicina Veterinária e Zootecnia
Arquivos Brasileiros de Cardiologia
Arquivos da Faculdade de Veterinária UFRGS
Arquivos de Gastroenterologia
Arquivos Fluminenses de Medicina Veterinária
Arzneimittel Forschung
Asean Journal of Clinical Sciences
Asian Pacific Journal of Allergy and Immunology
Assiut Veterinary Medical Journal
Atas da Sociedade de Biologia do Rio de Janeiro
Atti della Società Italiana di Buiatria
Australian and New Zealand Journal of Medicine
Australian Journal of Zoology
Australian Veterinary Journal
Australian Veterinary Practitioner
Avances en Ciencias Veterinarias
Avian Diseases
Avian Pathology
Bacteriologia, Virusologia, Parazitologia, Epidemiologia
Baillière's Clinical Gastroenterology
Berliner und Münchener Tierärztliche Wochenschrift
Biken Journal
Biochemical and Biophysical Research Communications
Biochemical Journal
Biochemical Pharmacology
Biochemical Society Transactions
Biochemistry
Biochemistry International
Biochimica et Biophysica Acta, C (Molecular Cell Research)
Biochimica et Biophysica Acta, L (Lipid and Lipid Metabolism)
BioEssays
Biological Reviews of the Cambridge Philosophical Society
Biological Wastes
Biologizace a Chemizace Živočišné Výroby, Veterinaria
Biology of the Cell
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Biophysical Journal
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Boletim de Pesquisa, Centro de Pesquisa Agropecuária do Trópico
Umido, EMBRAPA, Brazil
Boletim do Instituto de Pesquisas Veterinárias "Desidério Finamor"
Boletín Chileno de Parasitología
Boletín de la Dirección de Malaria y Saneamiento Ambiental
Boletín de la Oficina Sanitaria Panamericana
Boletín Médico del Hospital Infantil de México
Bollettino dell'Istituto Sieroterapico Milanese
Bone Marrow Transplantation
Bovine Practitioner
Bratislavské Lekárske Listy
Brazilian Journal of Medical and Biological Research
Brenesia
British Journal of Clinical Pharmacology
British Journal of Diseases of the Chest
British Journal of Experimental Pathology

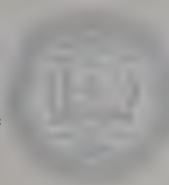
- British Journal of Haematology
 British Journal of Nutrition
 British Journal of Ophthalmology
 British Journal of Radiology
 British Journal of Surgery
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 Buletini i Shkencave Zooteknike e Veterinare
 Bulletin d'Information des Laboratoires des Services Vétérinaires
 Bulletin de la Société de Pathologie Exotique et de ses Filiales
 Bulletin de la Société Française de Parasitologie
 Bulletin des Groupements Techniques Vétérinaires
 Bulletin des Recherches Agronomiques de Gembloux
 Bulletin du Muséum National d'Histoire Naturelle, A (Zoologie, Biologie et Ecologie Animales)
 Bulletin Mensuel de la Société Vétérinaire Pratique de France
 Bulletin of Animal Health and Production in Africa
 Bulletin of Endemic Diseases
 Bulletin of Nippon Veterinary and Zootechnical College
 Bulletin of the European Association of Fish Pathologists
 Bulletin of the Faculty of Fisheries, Mie University
 Bulletin of the Institute of Maritime and Tropical Medicine in Gdynia
 Bulletin of the Institute of Zoology, Academia Sinica
 Bulletin of the National Grassland Research Institute, Japan
 Bulletin of the Pan American Health Organization
 Bulletin of the World Health Organization
 Bulletin, Institute for Medical Research, Kuala Lumpur
 Bulletin, Výzkumný Ústav Rybářský a Hydrobiologický Vodňany
 Byulleten' Vsesoyuznogo Instituta Gel'mintologii im. K.I. Skryabina
 Cahiers ORSTOM, Entomologie Médicale et Parasitologie
 Camel Newsletter
 Canadian Entomologist
 Canadian Family Physician
 Canadian Journal of Microbiology
 Canadian Journal of Public Health
 Canadian Journal of Veterinary Research
 Canadian Journal of Zoology
 Canadian Medical Association Journal
 Canadian Veterinary Journal
 Cardiology
 Cell
 Cellular Immunology
 Centaur
 Central African Journal of Medicine
 Československá Epidemiologie, Mikrobiologie, Imunologie
 Československá Farmacie
 Československá Hygiena
 Československá Pediatrie
 Československá Stomatologie
 Cheiron
 Chemical and Pharmaceutical Bulletin
 Chemistry and Industry
 Chemosphere
 Chemotherapy
 Chest
 Child's Nervous System
 Chinese Journal of Parasitology & Parasitic Diseases
 Chinese Journal of Veterinary Science and Technology
 Chinese Medical Journal
 Ciencias Veterinarias, Costa Rica
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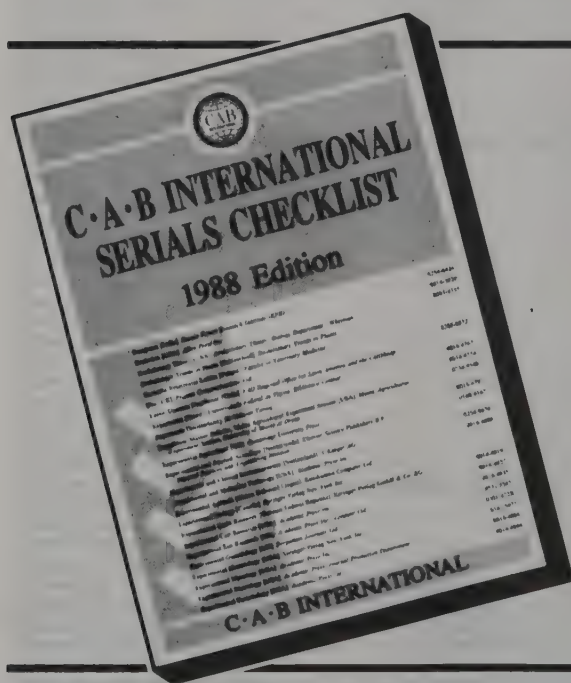
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CAB International Mycological Institute (CMI), Director Professor D.L. Hawksworth, located at Ferry Lane, Kew, London, adjacent to the Royal Botanic Gardens.

CAB International Institute of Parasitology (CIP), Director Dr R. Muller, located at Winches Farm, St. Albans, the field station of the London School of Hygiene & Tropical Medicine.

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